

SECTION A: (40 MARKS)

Answer all the questions in this section.

1. Solve the equation: $\sin x + \sin 2x + \sin 3x = 0$ for $0^\circ \leq x \leq 180^\circ$. (05 marks)

2. (a) Express $Z = \frac{3+i}{1-i}$ in the form $a + bi$, where a and b are integers. (03 marks)

(b) Find the argument of Z . (02 marks)

3. Given that $y = \ln \left\{ x \sqrt{(x+1)^3} \right\}$, find $\frac{dy}{dx}$. (05 marks)

4. A plane is perpendicular to the vector $r = (i + 3j - 2k)$ and contains the point $P(-2, 0, 4)$. Determine the equation of the plane. (05 marks)

5. Evaluate $\int_0^{\pi/3} \tan^2 \frac{1}{2} x \, dx$. (05 marks)

6. In how many ways can the letters of the word BUNDESLIGA be arranged if:

(a) there is no restriction? (02 marks)

(b) the vowels must be together? (03 marks)

7. (a) Show that the curves $y = x^2 + 2x + 1$ and $y = x^2 - 2x + 1$ intersect at the origin and at the point $(2, 5)$. (02 marks)

(b) Determine the coordinates of the other intersection point. (03 marks)

8. Find the gradient of the curve $y = \sin^{-1} x + \cos^{-1} x$ at the point $(\frac{1}{2}, \frac{\pi}{2})$. (02 marks)

SECTION B: (40 MARKS)

Answer all the questions from this section. All questions carry equal marks.

9. A function $f(x)$ is defined by $f(x) = \frac{1}{x^2} + \frac{1}{x}$. Find $f'(x)$ and hence find the gradient of the normal to the curve at the point where $x = 1$. (05 marks)

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Section 11-3: Exploring Mendelian Genetics Flashcards All genes show simple patterns of dominant and recessive alleles. Description: One allele is not completely dominant over another. The heterozygous phenotype ... 11-4 Meiosis (Answers to Exploring Mendelian Genetics ... Genes for different traits can segregate independently during the formation of gametes. dominant recessive false. 10. codominance multiple ... 11-3 Exploring Mendelian Genetics Flashcards the inheritance of biological characteristics is determined by genes that are passed from parents to their offspring in organisms that reproduce sexually Exploring Mendelian Genetics Exploring Mendelian Genetics. Section 11-3. Independent Assortment. In a two-factor cross, Mendel followed _____ different genes as they passed from one ... 11-3 Exploring Mendelian Genetics Mendel crossed the heterozygous F1 plants (RrYy) with each other to determine if the alleles would segregate from each other in the F2 generation. RrYy × RrYy. 11-3 Exploring Mendelian Genetics What is the difference between incomplete dominance and codominance? • Incomplete dominance = heterozygous phenotype is somewhere in between the 2. Section 11-3 Exploring Mendelian Genetics Section 11-3 Exploring Mendelian Genetics. (pages 270-274). Key Concepts. • What is the principle of independent assortment? • What inheritance patterns exist ... Answers For CH 11, 13, 14 Reading Handout Section 11—3 Exploring Mendelian Genetics 9. What was the ratio of Mendel's F2 generation for the two-factor cross? (pages 270-274) 10. Complete the Punnett ... 11-3 Exploring Mendelian Genetics Aug 14, 2014 — 11-3 Exploring Mendelian Genetics. Key Concepts: What is the principle of independent assortment? What inheritance patterns exist aside from ... Answers to All

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